

# HANNI KIISKI, PH.D.

## PROFESSIONAL EXPERIENCE 10/2015 – TO DATE POST-DOCTORAL RESEARCH FELLOW

### TRINITY COLLEGE INSTITUTE OF NEUROSCIENCE & UCD SCHOOL OF PSYCHOLOGY, DUBLIN IRELAND

- Irish Research Council funded project that aims to identify a heritability profile of cognitive and sensory deficits in adult ADHD.
- Leading and designing research studies, programming, analysing large-scale neurophysiological data, disseminating findings (including outreach activities), working in interdisciplinary teams.

## 09/2012 – 09/2015 POST-DOCTORAL RESEARCH FELLOW

### TRINITY COLLEGE INSTITUTE OF NEUROSCIENCE, DUBLIN IRELAND

- Led, designed, programmed and conducted experiments in ‘Socializing agents’ project investigating of how person characteristics are perceived from faces, voices and bodies. Disseminated findings and worked in an interdisciplinary team.

## 09/2008 – 10/2009 RESEARCH ASSISTANT

### TRINITY CENTRE FOR BIOENGINEERING, DUBLIN IRELAND

- Conducted, managed and analysed large-scale clinical data from neurophysiological and neuropsychological experiments.

## 09/2005 – 12/2006 RESEARCH ASSISTANT

### PET CENTRE & CLINICAL RESEARCH SERVICES TURKU, FINLAND

- Conducted neuropsychological examinations to study cognitive functions in old age (+65 years).

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## AWARDS

- Irish Research Council Government of Ireland Postdoctoral Fellowship, €91,790 (2015)
  - Irish Research Council for Science, Engineering & Technology Postgraduate Scholarship, €72,009 (2009)
  - Government of Ireland Exchange Scholarship for Finnish students, €4,721 (2009)
  - FENS-IBRO/PERC travel award winner, Berlin Germany, €750 (2018)
  - ECNP travel award winner, Paris France, €500 (2017)
  - Centre for Ageing Research and Development in Ireland (CARDI) and Canadian Institute of Health Research (CIHR) – Institute of Aging Scholarship to attend 5-day Canadian Summer Programme in Ageing, Vancouver Canada (2012)
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<b>TEACHING &amp; OTHER RELEVANT WORK EXPERIENCE</b>	<p><b>10/2015 – 11/2015</b> <u>OCCASIONAL LECTURER</u></p> <p><b>10/2014 – 11/2014</b> <b>UCD SCHOOL OF PSYCHOLOGY, UNIVERSITY COLLEGE DUBLIN, IRELAND</b></p> <ul style="list-style-type: none"> <li>• Lectured on Ageing &amp; Neurodegeneration, Functional Methods-EEG, Acquired Brain Disorders, Neuroplasticity and Developmental neuropsychiatric and neurodegenerative conditions.</li> </ul> <p><b>04/2016</b> <u>SUPERVISION &amp; TEACHING</u></p> <p><b>10/2013 – 01/2015</b> <b>TRINITY COLLEGE INSTITUTE OF NEUROSCIENCE&amp;TRINITY CENTRE FOR</b></p> <p><b>10/2009 – 09/2012</b> <b>BIOENGINEERING, DUBLIN IRELAND</b></p> <ul style="list-style-type: none"> <li>• Lead and taught a 2-day EEG data analysis training workshop for researchers in Trinity College Institute of Neuroscience. (2016)</li> <li>• Formal instruction and training on the acquisition and analysis of high-density EEG data to groups and to 20+ students and research assistants individually. Tutorials to groups of Psychology students. (2009-2015)</li> <li>• Co-supervision of 11 students' BSc/MSc thesis research projects.</li> </ul> <p><b>08/2007 – 12/2007</b> <u>PSYCHOLOGY TRAINEE</u></p> <p><b>NEUROLOGICAL REHABILITATION WARD &amp; CHILD NEUROLOGY UNIT, TURKU UNIVERSITY HOSPITAL, FINLAND</b></p> <ul style="list-style-type: none"> <li>• Performed neuropsychological assessments and rehabilitation plans in interdisciplinary teams.</li> </ul> <p><b>03/2004 – 11/2006</b> <u>ASSISTANT</u></p> <p><b>PSYKOLOGITIIMI PÄÄMÄÄRÄ, TURKU, FINLAND</b></p> <ul style="list-style-type: none"> <li>• Administered aptitude tests and managed office tasks in fast-paced business environment.</li> </ul>
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<b>EDUCATION</b>	<p><b>11/2013</b> <b>PHD IN NEURAL ENGINEERING, TRINITY COLLEGE DUBLIN, IRELAND</b></p> <p>Thesis: Identifying objective neurophysiological methods to examine cognitive and brain function in multiple sclerosis. (Supervisor: Prof. Richard Reilly)</p> <p><b>06/2008</b> <b>MASTER OF SCIENCE IN PSYCHOLOGY, UNIVERSITY OF TURKU, FINLAND (GRADUATED WITHIN THE TOP 15%)</b></p> <p>Thesis: Heritability of memory in old age using a large twin sample.</p> <p><b>11/2011</b> <b>POSTGRADUATE DIPLOMA IN STATISTICS, TRINITY COLLEGE DUBLIN</b></p> <p><b>08/2016</b> <b>FETAC CERTIFICATE IN PROJECT MANAGEMENT, HIBERNIAN TRAINING COURSES (87% WITH DISTINCTION)</b></p> <p><b>01/2007 – 05/2007</b> <b>EXCHANGE STUDIES IN PSYCHOLOGY, LEEDS METROPOLITAN UNIVERSITY, UK</b></p>
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## RESEARCH METHODS

- **STATISTICAL METHODS:** Machine learning with EEG and behavioural data (MATLAB); python (PANDAS, Seaborn); R; Statistica; Minitab; SPSS; Mx
- **EEG DATA ANALYSIS& ACQUISITION:** SPM12 and EEGLAB (MATLAB); High-density EEG acquisition with 64- and 128-channel Biosemi hardware
- **EXPERIMENTAL METHODS:** Psychtoolbox, Presentation
- **NEUROPSYCHOLOGICAL METHODS:** WAIS-III (Wechsler Adult Intelligence Scale-III), WMS-R (Wechsler Memory Scale Revised), Trail Making Test, Stroop, PASAT (Paced Auditory Serial Addition Test), ADAS-Cog (Alzheimer's Disease Assessment Scale-cognitive subscale).
- **OTHER:** Facial Action Coding System (FACS) certified

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## OUTREACH & POSITIONS OF RESPONSIBILITY

- Second place with an innovative EEG project presented in Hack the Brain Dublin 2017.
- Presented EEG demos with members of public in Probe 2016 event.
- Paper on spectral EEG irregularities in multiple sclerosis (Kiiski et al., 2012) featured as Trinity College Dublin Press Release and in other websites such as ScienceDaily.
- Reviewer for e.g. Neuroimage: Clinical, Clinical EEG & Neuroscience, and Computer Methods and Programs in Biomedicine journals.
- Judge for 2014 Undergraduate Awards Programme.
- Treasurer in the Social Club of Psychology Students (University of Turku) in years 2005 and 2006.

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## LANGUAGES

- **FINNISH:** Native speaker
- **ENGLISH:** Fluent in written and spoken
- **SPANISH AND SWEDISH:** Good working knowledge
- **FRENCH AND GERMAN:** Basic knowledge

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## APPENDIX Journal publications, Presentations and posters

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## APPENDIX

### JOURNAL PUBLICATIONS

**Kiiski, H.\***, Rueda-Delgado, L.M.\*, Bennett, M., Knight, R., Rai, L., Roddy, D., Grogan, K., Bramham, J., Kelly, C., Whelan, R. (2018). Shared and unique functional EEG connectivity patterns in adults with attention deficit hyperactivity disorder, 1st degree relatives and unrelated controls. [submitted to Cerebral Cortex journal]

**Kiiski, H.**, Jollans, L., Ó Donnchadha, S., Nolan, H., Lonergan, R., Kelly, S., O'Brien, M. C., Kinsella, K., Bramham, J., Burke, T., Hutchinson, M., Tubridy, N., Reilly, R. B., & Whelan, R. (2018). Machine learning EEG to predict Cognitive Efficiency and Processing Speed over a 2-year Period in Multiple Sclerosis Patients. *Brain topography*, 1-18. doi: 10.1007/s10548-018-0620-4 [1 citation]

O'Halloran, L., Pennie, B., Jollans, L., **Kiiski, H.**, Vahey, N., Rai, L., Bradley, L., Lalor, R., & Whelan, R. (2018). A combination of impulsivity subdomains predict alcohol intoxication frequency. *Alcoholism: Clinical and Experimental Research*.

Grogan, K., Gormley, C. I., Rooney, B., Whelan, R., **Kiiski, H.**, Naughton, M., & Bramham, J. (2018). Differential diagnosis and comorbidity of ADHD and anxiety in adults. *British Journal of Clinical Psychology*, 57(1), 99-115. doi: 10.1111/bjc.12156

**Kiiski, H. S. M.**, Cullen, B., Clavin, S. L. & Newell, F. N. (2016). Perceptual and social attributes underlining age-related preferences for faces. *Frontiers in Human Neuroscience*, 10, 437. doi: 10.3389/fnhum.2016.00437 [1 citation]

**Kiiski, H.**, NiRiada, S., Lalor, E.C., Gonçalves, N.R., Nolan, H., Whelan, R., Lonergan, R., Kelly, S., O'Brien, M.C., Kinsella, K., Bramham, J., Burke, T., Ó Donnchadha, S., Hutchinson, M., Tubridy, N., Reilly, R.B. (2016). Delayed P100 Latencies in Multiple Sclerosis: The Potential Clinical Utility of Visual Evoked Spread Spectrum Analysis. *PLOS ONE*, doi: 10.1371/journal.pone.0146084 [2 citations]

**Kiiski, H.**, Hoyet, L., Woods, A. T., O'Sullivan, C., & Newell, F. N. (2015). Strutting Hero, Sneaking Villain: Utilising Body Motion Cues to Predict the Intentions of Others. *ACM Transactions on Applied Perception*, 13(1). doi: 10.1145/2791293 [3 citations]

**Kiiski, H.**, Reilly, R.B., Lonergan, R., Kelly, S., O'Brien, M., Kinsella, K., Bramham, J., Burke, E.T., O'Donnchadha, S., Nolan, H., Hutchinson, M., Tubridy, N., & Whelan, R. (2012). Only low frequency event-related EEG activity is compromised in multiple sclerosis: insights from an independent component clustering analysis. *PLOS ONE*, 7(9), e45536. doi:10.1371/journal.pone.0045536 [12 citations]

**Kiiski, H.**, Reilly, R.B., Lonergan, R., Kelly, S., O'Brien, M., Kinsella, K., Bramham, J., Burke, E.T., O'Donnchadha, S., Nolan, H., Hutchinson, M., Tubridy, N., & Whelan, R. (2011). Change in PASAT performance correlates with change in P3 ERP amplitude over a 12-month period in multiple sclerosis patients. *Journal of Neurological Sciences*, 305(1-2), 45-52. doi:10.1016/j.jns.2011.03.018 [17 citations]

**Kiiski, H.**, Whelan, R., Lonergan, R., Nolan, H., Kinsella, K., Hutchinson, M., Tubridy, N., Reilly, R.B. (2011). Preliminary Evidence for Correlation Between PASAT Performance and P3a and P3b amplitudes in progressive multiple sclerosis. *European Journal of Neurology*. 18(5), 792-795. doi:10.1111/j.1468-1331.2010.03172.x [14 citations]

**Kiiski, H.**, Lonergan, R., Whelan, R., Nolan, H., Kinsella, K., O'Brien, M., Reilly, R.B., Hutchinson, M., & Tubridy, N. (2009). P3 abnormalities in multiple sclerosis as a function of oligoadenylate synthetase genotype. *Irish Journal Of Medical Science*, 179(3), S123.

Whelan, R., Lonergan, R., **Kiiski, H.**, Nolan, H., Kinsella, K., Hutchinson, M., Tubridy, N., & Reilly, R.B. (2010). Impaired information processing speed and attention allocation in multiple sclerosis patients versus controls: A high-density EEG study. *Journal of the Neurological Sciences*, 293(1-2), 45-50. doi: 10.1016/j.jns.2010.03.010 [19 citations]

Whelan, R., Lonergan, R., **Kiiski, H.**, Nolan, H., Kinsella, K., Bramham, J., O'Brien, M., Reilly, R.B., Hutchinson, M., & Tubridy, N. (2010). A high-density ERP study reveals latency, amplitude, and topographical differences in multiple sclerosis patients versus controls. *Clinical Neurophysiology*, 121(9), 1420-1426. doi: 10.1016/j.clinph.2010.03.019 [28 citations]

O'Donnchadha, S., Burke, E.T., Bramham, J., O'Brien, M., Whelan, R., Reilly, R.B., **Kiiski, H.**, Lonergan, R., Kinsella, K., Kelly, S., McGuigan, C., Hutchinson, M., & Tubridy, N. (2013). Symptom overlap in anxiety and multiple sclerosis. *Multiple Sclerosis Journal*, doi: 10.1177/1352458513476742 [14 citations]

O'Donnchadha, S., Burke, T., Bramham, J., O'Brien, M.C., Reilly, R., **Kiiski, H.**, Whelan, R., Lonergan, R., Kinsella, K., Kenny, O., Kelly, S., McGuigan, C., Hutchinson, M., & Tubridy, N. (2013). Reliable change indices for the Brief International Cognitive Assessment for Multiple Sclerosis (BICAMS). *Multiple Sclerosis Journal*, 19, 7, pp969-977. [2 citations]

\*shared first authorship

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PRESENTATIONS  
& POSTERS

**Kiiski, H.**, Bennett, M., Rai, L., Sweeney, A., Knight, R., Mihelj, E., Boyle, R., Grogan, K., Aleni, A., Bramham, J., Kelly, C., Whelan, R. (2018). Deficits in electrophysiological sensory gating associated with inattention problems in adult attention-deficit/hyperactivity disorder (ADHD), but not in first-degree relatives and controls, **Poster**, Proceedings of the 11th FENS Forum of Neuroscience, Berlin Germany, July 7-11.

Meria Dolan & **Kiiski, H.** (2018). Parental mental disorders and executive functioning difficulties in children and adolescents with ADHD, **Poster**, Proceedings of the 23<sup>rd</sup> World Congress of the International Association for Child and Adolescent Psychiatry and Allied Professions, Prague Czech Republic, July 23-27.

**Kiiski, H.** (2017). Neuroscience research on adult ADHD in Trinity College Dublin, **Presentation** at the 'Girls and Women with ADHD' event organized by HADD-ADHD Ireland, Dublin Ireland, October 12.

**Kiiski, H.**, Bennett, M., Kelly, C., Grogan, K., Rai, L., Sweeney, A., Mihelj, E., Boyle, R., Aleni, A., Bramham, J., & Whelan, R. (2017). EEG theta/beta ratio correlates positively with inattention and memory problems in ADHD and controls, **Poster**, *Proceedings of the 30<sup>th</sup> ECNP Congress*, Paris France, September 2-5.

**Kiiski, H.**, Jollans, L., Lonergan, R., Kelly, S., O'Brien, M. C., Kinsella, K., Bramham, J., Burke, T., Ó'Donnchadha, S., Nolan, H., Hutchinson, M., Tubridy, N., Reilly, R. B., & Whelan, R. (2016). Visual P3 Event-Related Potential Activations Predict Cognitive Efficiency after 12-Months in Multiple Sclerosis Patients and Controls, **Poster**, *Proceedings of Annual BrainModes Meeting*, Brussels Belgium, December 1-2.

**Kiiski, H.**, Cullen, B., Clavin, S. L., & Newell, F. N. (2015). The role of age on the perception of traits from younger and older voices and faces, **Poster**, *Proceedings of the 16th International Multisensory Research Forum (IMRF)*, Pisa Italy, June 13 - 16.

**Kiiski, H.**, Woods, A.T., & Newell, F.N. (2014). Categorical perception of intentions from visual cues in faces, **Poster**, *Proceedings of the 37th European Conference on Visual Perception (ECP)*, Belgrade Serbia, August 24-28.

**Kiiski, H.**, Neill, F., Hoyet, L., Zibrek, K., O'Sullivan, C., & Newell, F.N. (2014). Vocal information modulates the perception of traits from body motion, **Poster**, *Proceedings of the 15th International Multisensory Research Forum (IMRF)*, Amsterdam the Netherlands, June 11 - 14.

**Kiiski, H.** (2014). Sneaky villains and powerful heroes: Perception of traits from body motion cues, **Presentation** at the Recognition and Categorization group meeting of the Max Planck Institute for Biological Cybernetics, Tübingen Germany, February 19.

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**Kiiski, H.**, Hoyet, L., Cullen, B., Woods, A.T., O'Sullivan, C., & Newell, F.N. (2013). Perception of Traits from Static and Dynamic Visual Cues in Faces and Bodies, **Poster**, *36th European Conference on Visual Perception (ECVP)*, Bremen Germany, August 25-29.

**Kiiski, H.**, Hoyet, L., Cullen, B., O'Sullivan, C., & Newell, F.N. (2013). Perception and Prediction of Social Intentions from Human Body Motion, **Commented poster**, *Proceedings of ACM Symposium on Applied Perception (ACM SAP)*, Dublin Ireland, August 22-23.

**Kiiski, H.**, Hoyet, L., Zibrek, K., O'Sullivan, C., & Newell, F.N. (2013). Audio-visual interactions in the perception of intention from actions, **Poster**, *Proceedings of the 14th International Multisensory Research Forum (IMRF)*, Jerusalem Israel, June 3-6.

**Kiiski, H.** (2011). EEG approach to cognitive impairment in multiple sclerosis: Source analysis findings, **Presentation** at the Neurology journal club meeting of St. Vincent's University Hospital Department of Neurology, Dublin Ireland, July 13.

**Kiiski, H.**, Reilly, R. B., Lonergan, R., Kelly, S., O'Brien, M., Kinsella, K., Bramham, J., Burke, T., O'Donnchadha, S., Nolan, H., Hutchinson, M., Tubridy, N., & Whelan, R. (2011). Change in PASAT Performance Correlates with Change in P3 ERP Amplitude over a 12-Month Period in Multiple Sclerosis Patients, **Poster**, *Proceedings of the 47th Irish Neurological Association meeting 2011*, Sligo Ireland, May 12-13.

**Kiiski, H.**, Reilly, R. B., Lonergan, R., Kelly, S., O'Brien, M., Kinsella, K., Bramham, J., Burke, T., O'Donnchadha, S., Nolan, H., Hutchinson, M., Tubridy, N., & Whelan, R. (2011). Change in PASAT Performance Correlates with Change in P3 ERP Amplitude over a 12-Month Period in Multiple Sclerosis Patients, **Poster**, *Proceedings of the 10th International Conference on Alzheimer's & Parkinson's Diseases AD/PD 2011*, Barcelona Spain, March 9-13.

**Kiiski, H.** (2011). Cognitive impairment in Multiple Sclerosis: EEG approach, **Presentation** at the Neurology journal club meeting of St. Vincent's University Hospital Department of Neurology, Dublin Ireland, March 11.

Whelan, R., Lonergan, R., **Kiiski, H.**, Nolan, H., Kinsella, K., Bramham, J., O'Brien, M., Reilly, R.B., Hutchinson, M., & Tubridy, N. (2010). A High-density ERP Study Reveals Latency, Amplitude, and Topographical Differences in Multiple Sclerosis Patients versus Controls, **Commented poster**, *Proceedings of the 16th Annual Bioengineering in Ireland*, Malahide Ireland, January 22-23.

**Kiiski, H.**, Lonergan, R., Whelan, R., Nolan, H., Kinsella, K., O'Brien, M., Reilly, R.B., Hutchinson, M., & Tubridy, N. (2009). P3 Abnormalities in Multiple Sclerosis as a Function of Oligoadenylate Synthetase Genotype, **Poster**, *Proceedings of 3<sup>rd</sup> Annual Neuroscience Ireland Conference*, Dublin Ireland, September 10-11.

Whelan, R., Lonergan, R., **Kiiski, H.**, Nolan, H., Kinsella, K., Bramham, J., O'Brien, M.C., Reilly, R.B., Hutchinson, M., Tubridy, N. (2009). ERP abnormalities in multiple sclerosis patients: A high-density EEG study, **Selected Oral Presentation**, *Irish Journal Of Medical Science*, 179, 3, S106.

Lalor, E.C., Lonergan, R., **Kiiski, H.**, Kinsella, K., Reilly, R.B., Hutchinson, M., Tubridy, N., Whelan, R. (2009). A method for the rapid assessment of visual processing latencies in multiple sclerosis, **Poster**, *Irish Journal of Medical Science*, 179, 3, S123.

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